

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An adjustable device deployment system, for implanting an implantable device within ~~a tubular structure~~ an opening in the body comprising:

an implantable device, said device being movable between a reduced cross section and an enlarged cross section;

a sheath having a proximal end and a distal end and a lumen adapted to receive the implantable device;

a deployment catheter adapted to extend through the sheath having an elongate flexible body with a proximal end and a distal end; and

a deployment line adapted to extend through the deployment catheter releasably attached to the implantable device.

2. (Original) An adjustable device deployment system as in Claim 1, wherein the implantable device comprises an expandable frame.

3. (Original) An adjustable device deployment system as in Claim 2, wherein the implantable device self-expands to have an enlarged cross section.

4. (Original) An adjustable device deployment system as in Claim 2, wherein the frame comprises at least two spokes.

5. (Original) An adjustable device deployment system as in Claim 4, wherein the frame comprises at least six spokes.

6. (Original) An adjustable device deployment system as in Claim 4, wherein each spoke is movable from an axial orientation when the implantable device is in the reduced

cross section to an inclined orientation when the implantable device is in the enlarged cross section.

7. (Original) An adjustable device deployment system as in Claim 6, wherein each spoke comprises a proximal section, a distal section, and a bend in between the proximal and distal sections when the implantable device is in the enlarged cross section.

8. (Original) An adjustable device deployment system as in Claim 6, wherein the spokes are cut from a tube.

9. (Original) An adjustable device deployment system as in Claim 1, further comprising a plurality of tissue attachment elements on the implantable device.

10. (New) An adjustable device deployment system as in Claim 9, wherein the implantable device is moveable between its reduced and enlarged cross sections while distal to the distal end of the deployment catheter.

11. (New) An adjustable device deployment system, for implanting an implantable device within an atrial appendage comprising:

an implantable device having a proximal end and a distal end and a plurality of supports extending from the proximal end to the distal end, the implantable device being movable between a reduced cross section and an enlarged cross section, wherein the implantable device in its enlarged cross section is sized for engaging an inner surface at an atrial appendage, and having a barrier on at least a proximal face of the device;

a trans-septal catheter having a proximal end and a distal end and a lumen adapted to receive the implantable device;

a deployment catheter adapted to extend through the trans-septal catheter having an elongate flexible body with a proximal end and a distal end; and

a deployment line adapted to extend through the deployment catheter releasably attached to the implantable device, wherein the implantable device is moveable between its reduced and enlarged cross sections while distal to the distal end of the deployment catheter.

12. (New) The system of Claim 11, wherein the implantable device has a proximal hub, with the plurality of supports extending distally therefrom.

13. (New) The system of Claim 11, wherein the implantable device increases radially in dimension from its proximal end to an apex portion, and then decreases radially in dimension from the apex portion to the distal end.

14. (New) The system of Claim 11, wherein the barrier is a membrane.

15. (New) The system of Claim 14, wherein the barrier is made of ePTFE.

16. (New) The system of Claim 11, wherein the implantable device comprises a plurality of retention elements configured for engaging the inner surface of the atrial appendage when said implantable device is in said expanded configuration.

17. (New) The system of Claim 16, wherein the retention elements are barbs.